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09/155,231

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SEPPU HAMALAINEN

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06/17/2002

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EXAMINER

DUONG, DUC T

ART UNIT

PAPER NUMBER

2663

DATE MAILED: 06/17/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/155,231

Applicant(s)

HAMALAINEN ET AL.

Examiner

Duc T. Duong

Art Unit

2663

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 21 March 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-11 is/are pending in the application.
- 4a) Of the above claim(s) 9 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-7 and 10 is/are rejected.
- 7) ☒ Claim(s) 8 and 11 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☒ The proposed drawing correction filed on 21 March 2002 is: a) ☒ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

### **Response to Arguments**

1. Applicant's arguments with respect to claims 1, 2, 5, 6, 7, and 10 have been considered but are moot in view of the new ground(s) of rejection.

### ***Claim Rejections - 35 USC § 112***

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 3-5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 3 recites the limitation "the frequency" on lines 2-3 and 5. There is insufficient antecedent basis for this limitation in the claim.

Claim 4 recites the limitation "the length" on lines 3 and 5. There is insufficient antecedent basis for this limitation in the claim.

Claim 5 recites the limitation "the energy" on lines 2 and 4-5. There is insufficient antecedent basis for this limitation in the claim.

### ***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

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(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

5. Claims 1, 2, and 6 are rejected under 35 U.S.C. 102(e) as being anticipated by Ghosh et al (U.S. Patent 5,629,934).

Regarding to claims 1 and 2, Ghosh discloses a method of controlling the transmission power used in a digital radio link in a system where a base station and a personal station are parties to the radio connection and during operation between them either party may send a power control command, which will change the transmission power of the other party, the method comprising when a transmission rate of the first party changes, the first party informs the second party of the new transmission rate (Fig. 11 col. 5 lines 30-52), and in response to the new transmission rate the second party changes the power control command to be sent to the first party to be in accordance with the new transmission rate (Fig. 12 col. 5 lines 53-57 and col. 6 lines 1-7), the first party changes the reception of its own power control command to be in accordance with the new transmission rate (Fig. 8 col. 4 lines 27-36).

Regarding to claim 6, Ghosh discloses the transmission rate is declared in the transmission frame (col. 5 lines 39-41).

***Claim Rejections - 35 USC § 103***

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ghosh in view of Padovani et al (U.S. Patent 5,396,516).

Regarding to claim 5, Ghosh discloses all the limitation with respect to claim 1, except for when the transmission rate of the first party is decreased, the second party will lower the energy of power control commands to be sent to the first party and, correspondingly, when the transmission rate of the first party is increased, the second party will increase the energy of power control commands.

However, Padovani discloses a communication system with a power command generator (energy) for power up or down a data transmission based on a rate indication (col. 7 lines 3-17).

Thus, it would have been obvious to one of ordinary skilled in the art, at the time of the invention, to include the power command generator as taught be Padovani in Ghosh's system with the motivation to maintain a balance between interference and signal quality of the mobile and base station.

7. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ghosh in view of Li (U.S. Patent 5,537,410).

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Regarding to claim 7, Ghosh discloses all the limitation with respect to claim 1, except for the change in transmission rate of the first party is declared by changing a structure of a transmission frame directly to correspond with the new transfer rate.

However, Li discloses a variable data rate communication system with alternate frame structures corresponding different data rates (col. 10 lines 43-59).

Thus, it would have been obvious to a person having ordinary skill in the art, at the time of the invention, to include a changing structure of a transmission frame directly to correspond with the new transfer rate as taught by Li in Ghosh's method with the motivation to reduce likelihood of transmission errors.

8. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ghosh in view of Love et al (U.S. Patent 5,745,520).

Regarding to claim 10, Ghosh discloses all the limitation with respect to claim 1, except for the power control command change in step size.

In the analogous art, Love discloses a method for power control adjustment in a spread-spectrum communication system using threshold step-down size. See Fig. 3 col. 5 lines 25-39.

Thus, it would have been obvious to a person having ordinary skill in the art, at the time of the invention, to include the power control adjustment using step size as taught by Love in Ghosh's method with the motivation to target the value of the power control command.

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***Allowable Subject Matter***

9. Claims 3 and 4 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

10. Claims 8 and 11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

***Conclusion***

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duc T. Duong whose telephone number is 703-605-5146. The examiner can normally be reached on M-Th (8:30 AM-5:30 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chau T. Nguyen can be reached on 703-308-5340. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9314 for regular communications and 703-872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-9600.

DD

June 11, 2002

A handwritten signature in black ink, appearing to read 'Duc T. Duong', with a date '6/11/02' written below it.